MANASVI MANKAL

+91 7416559940 | Manasvi Mankal | Man-asvi | manasvi.mankal@gmail.com

SUMMARY

Aspiring Data Scientist & Software Engineer passionate about developing AI-driven applications and scalable software solutions. Skilled in Machine Learning, MERN Stack, and Algorithm Optimization, with hands-on experience in API integration, full-stack development, and data analytics. Proficient in building data-driven models, enhancing system efficiency, and creating innovative solutions for complex challenges. Committed to continuous learning and staying ahead of emerging trends in AI and software engineering.

EDUCATION

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (2022 - 2026)
Bachelor of Engineering - Artificial Intelligence and Data Science

GAUTAMI JUNIOR COLLEGE (2020 - 2022)
High School (11 & 12) - MPC

SILVER OAKS INTERNATIONAL SCHOOL HYDERABAD (2010 - 2020)
School (Grade 1 - 10)

SKILLS

Programming Languages: Python, Java, R Programming
Data Science, Machine Learning & Deep Learning: Deep Learning (CNN, RNN, Transfer Learning), Machine Learning, Data Science, Data Visualization, SQL
Frameworks & Libraries: TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib
Computer Science Basics: Data Structures & Algorithms(DSA), Linux Commands, Operating System(OS)
MERN Stack: MongoDB, ExpressJS, React, NodeJS
Web Development: HTML, CSS
Version Control: Git & GitHub
Soft Skills: Presentation, Teamwork & Collaboration, Time Management, Adaptability, Problem Solving

PROJECTS

ASCENTIA

Self-Growth Application using MERN Stack and AI Assistant

- Developed Ascentia, a gamified self-development tool enabling users to create tasks and earn points (XP) upon completion, implemented using the MERN stack for a full-stack application experience.
- Integrated visual graphs to display user performance and AI-driven challenges for personalized task recommendations, showcasing strong expertise in full-stack development and gamification techniques.
- Added an AI-powered chatbot leveraging Retrieval-Augmented Generation (RAG), enabling users to create tasks and retrieve task history through natural language prompts, ensuring intelligent and contextually relevant task management.

QUERY BRIDGE

Robust Data Query & Integration Layer with TypeScript

- Developed "query-bridge," an advanced system designed to facilitate intelligent data interaction by leveraging Retrieval-Augmented Generation (RAG) for contextual and accurate information retrieval.
- Engineered using TypeScript, this project integrates SQL.js to enable dynamic, client-side data querying and processing, alongside robust API integration for comprehensive data access.
- Provides a powerful bridge for generating informed responses and managing structured data, enhancing system capabilities for complex querying and AI-driven data insights.

CPU SCHEDULING

Implementation and Simulation of CPU Scheduling Algorithms in Java

- Developed a comprehensive project for implementing and simulating various CPU scheduling algorithms, demonstrating a foundational understanding of operating system principles.
- Implemented key scheduling techniques such as First-Come, First-Served (FCFS), Shortest Job First (SJF), Priority Scheduling, and Round Robin, showcasing algorithmic design and execution.
- Provided insights into process management and resource allocation strategies, highlighting proficiency in Java for system-level programming and performance analysis.

SOCIAL MEDIA ENGAGEMENT ANALYTICS

SQL & Data Analytics Project for User Engagement Tracking

- Designed and implemented a comprehensive social media analytics system using MySQL to track key user engagement metrics, including likes, comments, and trending hashtags.
- Developed complex SQL queries to identify top-performing content, most active users, and popular trends, enabling data-driven insights into social media interactions.
- Optimized database schema and indexing to significantly improve query performance and ensure efficient retrieval of large datasets, showcasing strong database design and data analytics skills.

CERTIFICATION

JAVA FULL STACK CERTIFICATION FROM UDEMY (2024)
FOUNDATION IN ARTIFICIAL INTELLIGENCE & MACHINE LEARNING CERTIFICATION (2024)
AMCAT CERTIFICATION (2025)
Scored 90+ percentile in all sections, demonstrating strong problem-solving and coding ability

HACKATHONS

AI/ML HACKATHON - 2025

Developed an AI Tool to Convert Natural Language to SQL Queries, enabling non-technical users to extract information from relational databases seamlessly.

HACKTOBER 24-HOUR HACKATHON - 2024

Built an AI-powered Outfit Recommendation System that analyzed user-uploaded wardrobe images and suggested combinations using image classification.

AMAZON SUSTAINABILITY HACKATHON – SEASON 5 -2025

Proposed tech-driven solutions to enhance sustainability by minimizing packaging waste and optimizing delivery logistics. Developed a Sustainability Store concept that scores products based on material and manufacturing processes to promote eco-friendly choices.

AMAZON SUSTAINABILITY HACKATHON – SEASON 5 -2025

Proposed tech-driven solutions to enhance sustainability by minimizing packaging waste and optimizing delivery logistics. Developed a Sustainability Store concept that scores products based on material and manufacturing processes to promote eco-friendly choices.

SMART INDIA HACKATHON - 2023

Developed a web-based solution to predict student dropouts by analyzing demographic and academic data. Visualized a state-wise dropout heatmap of India categorized by reasons such as gender, economic status, and education level. Proposed actionable solutions to reduce dropout rates through targeted interventions.

SMART INDIA HACKATHON - 2024

Created an interactive ocean pollution awareness game using intuitive design to educate users on conservation. Integrated story-based decision-making features where players navigate real-life scenarios and make choices impacting the virtual marine ecosystem, enhancing engagement and environmental understanding.

ACHIEVEMENTS

Runner-Up in Project Expo for Ascentia, a gamified self-development tool built using the MERN stack.
Solved 250+ problems on LeetCode, demonstrating strong problem-solving and data structures & algorithms proficiency.